SECRET
(When Filled In)

997-35

R & D CATALOG FORM

DATE: 7 January 1965

1. PROJECT TITLE/CODE NAME
Model II, Projected Scale Micrometer

2. SHORT PROJECT DESCRIPTION
An attachment for the [redacted] Zoom 70 Microstereoscope that projects a measuring reticle into the optical system.

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3. CONTRACTOR NAME
[redacted]

25X1A

4. LOCATION OF CONTRACTOR
[redacted]

25X1A

5. CLASS OF CONTRACTOR
Manufacturer

6. TYPE OF CONTRACT
Fixed Price

7. FUNDS
FY 1965 [redacted]

25X1A

FY 19 $

FY 19 $

8. REQUISITION NO.
5500-8607-65

9. BUDGET PROJECT NO.
NP-M-1

25X1A

10. EFFECTIVE CONTRACT DATE (Begin - end)
Jan 1965 - June 1965

[redacted]

12. RESPONSIBLE DIRECTORATE/OFFICE/PROJECT OFFICER TELEPHONE EXTENSION
DDI/NPIC/P&DS [redacted] 2610

25X1A

13. REQUIREMENT/AUTHORITY
[redacted]

25X1B

14. TYPE OF WORK TO BE DONE
This project is an engineering development directed toward the design and fabrication of a prototype Model II Projected Scale Micrometer.

15. CATEGORIES OF EFFORT

MAJOR CATEGORY	SUB-CATEGORIES
Measurement & Rectification Equipment	Optical Systems

16. END ITEM OR SERVICES FROM THIS CONTRACT/IMPROVEMENT OVER CURRENT SYSTEM, EQUIPMENT, ETC.
This project will result in one prototype, monthly progress reports and an instruction manual. This unit will be an advanced version of the prototype built for NPIC by [redacted] under a previous contract. The Model II incorporates the most desirable features of the original and introduces a number of changes to simplify

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17. SUPPORTING OR RELATED CONTRACTS (Agency & Other)/COORDINATION
By virtue of contracts throughout industry and the intelligence community, it appears that no equivalent device exists or is under development.

18. DESCRIPTION OF INTELLIGENCE REQUIREMENT AND DETAILED TECHNICAL DESCRIPTION OF PROJECT (Continue on additional page if required)
Photographic interpretation operations present a continual problem pertaining to comparative measurements of small scale imagery. A device to solve this problem should be precise, compact and relatively inexpensive in production quantities. The original unit was developed with these requirements in mind and was generally quite successful in proving the desirability of the projection-type measuring systems. The Model II is an attempt to improve the human engineering aspect of the original concept. (Continued)

19. APPROVED BY AND DATE

OFFICE	DEPUTY DIRECTOR	DDCI

FORM 11-64 2338

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GROUP 1
Excluded from automatic downgrading and declassification

(1-13)

R & D CATALOG FORMS (Continued)

16. and improve the measuring process. Better human engineering is an important improvement.

18. Technical Specifications

The Model II Projected Scale Micrometer will be a prototype instrument incorporating the following characteristics:

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a. It is an attachment designed to fit on any standard Model II [redacted] Zoom 70 Stereomicroscope.

b. Both the image and the measuring mark may be viewed while utilizing the complete zoom magnification ranges of the microscope.

25X1A

[redacted]

d. A mechanical counter displays the first three (3) digits; while, the last two (2) digits are read from a graduated drum.

e. The measuring reticle can be rotated 180°.

f. Increased reticle illumination is provided.

g. An azimuth ring has been added to permit measuring the angles between converging lines.